



EUROPEAN COMMISSION

DIRECTORATE-GENERAL JRC

JOINT RESEARCH CENTRE

Institute for Transuranium Elements

## Radioactivity - Radionuclides - Radiation

6<sup>th</sup> Multi-Media Training Course with Nuclides.net

(IJS, 14<sup>th</sup>-16<sup>th</sup> Sept 2005)

Core topics / Special Topics

### Agenda:

#### Day 1:

Wednesday 14<sup>th</sup> September

9:00	<b>0. Welcoming address</b>	I. Jenčič, IJS
9:10	1. Training course overview	J. Magill, ITU
	<b><u>Basic Concepts in Nuclear Science</u></b>	
9:20	2. Introduction to Nuclide Charts and Nuclides.net	J. Magill, ITU
9:40	3. <i>Case Study: Nuclide Explorer</i>	V. Berthou, IPSC
10:00	4. The New Tri-linear Nuclide Chart	L.A. Burchfield, US
Coffee 10:30		
10:50	5. <i>Case Study: Universal Nuclide Chart</i>	V. Berthou, IPSC
	<b><u>Nuclear Data</u></b>	
11:20	6. Introduction & Overview	J. Galy, ITU
12:05	7. <i>Case Study: Decay and fission yield modules</i>	J. Galy, ITU
Lunch 12:30		
13:30	8. <i>Case Study: Datasheets &amp; Factsheets</i>	J. Galy, ITU
	<b><u>Interaction of Radiation with Matter</u></b>	
14:00	9. Introduction & Overview	M. Koželj, IJS
14:45	10. <i>Case Study: <math>\gamma</math>-dosimetry &amp; shielding</i>	J. Galy, ITU
Coffee 15:15		
15:45	11. <i>Case Study: Range module</i>	J. Galy, ITU
16:15	End of session	
	<b><u>Welcome Reception</u></b>	
17:00	12. JRC presentation & opportunities	J.-F. Babelot, ITU
17:30-19:00	Cocktail Reception	Ch. Walther, ITU
19:15	Departure to hotel	

Continued.....



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#### Day 2:

Thursday 15<sup>th</sup>

#### Illicit Trafficking & Safeguards

9:00 13. Nuclear Forensic Science

A. Morgenstern, ITU

9:45 14. *Case Study: Age of nuclear materials*

A. Morgenstern, ITU

10:05 15. *Case Study: Oklo nuclear Geyser*

D. Hamilton, ITU

Coffee 10:25

10:45 Visit IJS (Demo, Reactor, Waste Storage Unit)

R. Istenič, M. Koželj, IJS

Lunch 12:45

#### Nuclear Science with High Intensity Lasers

13:45 16. Introduction & Overview

T. Zagar, IJS

14:30 17. *Case Study: Photo-nuclear Reactions on <sup>242</sup>Pu*

T. Zagar, IJS

Coffee 15:00

#### Environmental Radioactivity

15:30 18. Introduction & Overview

P. Stegnar, IJS

16:15 19. *Case Study: Nuclear tests and RDDs*

V. Berthou, IPSC

16:45 Departure to hotel

19:30 **Dinner at Inn Figovec** (<http://www.figovec.si/>) in Ljubljana

#### Day 3:

Friday 16<sup>th</sup>

#### Radio-Immunotherapy with Alpha Emitters

9:00 20. Introduction & Overview

A. Morgenstern, ITU

9:45 21. *Case Study: Transportation of Radionuclides*

C. Brossard, ITU

Coffee 10:15

#### Nuclear Education & Training

10:45 22. Nuclear Education & Training in the US

L. A. Burchfield, US

11:15 23. Nuclides.net: Quo Vadis?

J. Magill, ITU

11:45 24. Installation of Nuclides.net

J. Galy, ITU

Lunch 12:00

13:00 **TEST**

Coffee 15:00

15:30 **Corrections**

J. Galy, ITU

16:00 Questionnaire / feedback/ certificate/ poster

16:30 End of Course